CLAIM AMENDMENTS

1-3. (Cancelled)

4. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the rate at which symbols are transmitted from the transmitter to the receiver from the initial symbol rate to a subsequent symbol rate that is different than the initial symbol rate; and

transmitting a second group of symbols using the initial number of carriers and the subsequent symbol rate,

wherein the step of changing the rate at which symbols are transmitted includes the step of changing a frequency that is used to clock a serial to parallel converter, a divide by N counter coupled to an iFFT, and a parallel to serial converter by changing a multiplexer output, thereby selecting a different circuit capable of generating the subsequent symbol rate rather than a previous circuit capable of generating the initial symbol rate.

5. (Original) The method according to claim 4 wherein the step of changing the multiplexer output selects between the different circuit and the previous circuit such that the different circuit and the previous circuit respectively provide a subsequent symbol clock rate and an initial symbol clock rate

using at least one of a multiplier and divider.

6-7. (Cancelled)

8. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the number of carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of dynamically informing the transmitter of those carriers that were used in the initial number of carriers and will not be used in the subsequent number of carriers by placing zero magnitude signals on those carriers within the transmitter, wherein each carrier is individually selected to be used/not used.

9. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

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transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the number of carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of dynamically informing the transmitter of those carriers that were not used in the initial number of carriers and will be used in the subsequent number of carriers by placing data conveying signals into those carriers that previously had zero magnitude signals within the transmitter, wherein each carrier is individually selected to be used/not used.

10-11. (Cancelled)

12. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the number of carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of changing an iFFT size of an iFFT in the transmitter by a factor that is a power of two, and

wherein the step of changing in the transmitter the number of carriers in active use further includes the step of dynamically informing the transmitter of those carriers that were used in the initial number of carriers and will not be used in the subsequent number of carriers by placing zero magnitude signals on those carriers within the transmitter, wherein each carrier is individually selected to be used/not used.

13. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the number of carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of changing an iFFT size of an iFFT in the transmitter by a factor that is a power of two, and

wherein the step of changing in the transmitter the number of carriers in active use further includes the step of dynamically informing the transmitter of those carriers that were not used in the initial number of carriers and will be used in the subsequent number of carriers by placing data conveying signals into those carriers that previously had zero magnitude signals within the transmitter, wherein each carrier is individually selected to be used/not used.

14-16. (Cancelled)

17. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the rate at which symbols are transmitted from the transmitter to the receiver from the initial symbol rate to a subsequent symbol rate that is different than the initial symbol rate;

changing in the transmitter the number or carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers and the subsequent symbol rate,

wherein the step of changing the rate at which symbols are transmitted includes the step of changing a frequency that is used to clock a serial to parallel converter, a divide by N

counter coupled to an iFFT, and a parallel to serial converter by changing a multiplexer output, thereby selecting a different circuit capable of generating the subsequent symbol rate rather than a previous circuit capable of generating the initial symbol rate.

18. (Original) The method according to claim 17 wherein the step of changing the multiplexer output selects between the different circuit and the previous circuit such that the different circuit and the previous circuit respectively provide a subsequent symbol clock rate and an initial symbol clock rate using at least one of a multiplier and divider.

19. (Cancelled)

20. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the rate at which symbols are transmitted from the transmitter to the receiver from the initial symbol rate to a subsequent symbol rate that is different than the initial symbol rate;

changing in the transmitter the number or carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent

number of carriers and the subsequent symbol rate,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of dynamically informing the transmitter of those carriers that were used in the initial number of carriers and will not be used in the subsequent number of carriers by placing zero magnitude signals on those carriers within the transmitter, wherein each carrier is individually selected to be used/not used.

21. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the rate at which symbols are transmitted from the transmitter to the receiver from the initial symbol rate to a subsequent symbol rate that is different than the initial symbol rate;

changing in the transmitter the number or carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers and the subsequent symbol rate,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of dynamically informing the transmitter of those carriers that were not used in the initial number of carriers and will be used in the subsequent number of carriers by placing data conveying signals

into those carriers that previously had zero magnitude signals within the transmitter, wherein each carrier is individually selected to be used/not used.

22-23. (Cancelled)

24. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the rate at which symbols are transmitted from the transmitter to the receiver from the initial symbol rate to a subsequent symbol rate that is different than the initial symbol rate;

changing in the transmitter the number or carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers and the subsequent symbol rate,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of changing an iFFT size of an iFFT in the transmitter by a factor that is a power of two, and

wherein the step of changing in the transmitter the number of carriers in active use further includes the step of dynamically informing the transmitter of those carriers that were used in the initial number of carriers and will not be used

in the subsequent number of carriers by placing zero magnitude signals on those carriers within the transmitter, wherein each carrier is individually selected to be used/not used.

25. (Previously Presented) A method of communicating between a transmitter and a receiver in a wireless multi-carrier system comprising the steps of:

setting in the transmitter an initial number of carriers and an initial symbol rate at which symbols are transmitted from the transmitter to the receiver;

transmitting a first group of symbols using the initial number of carriers and the initial symbol rate;

changing in the transmitter the rate at which symbols are transmitted from the transmitter to the receiver from the initial symbol rate to a subsequent symbol rate that is different than the initial symbol rate;

changing in the transmitter the number or carriers in active use from the initial number of carriers to a subsequent number of carriers that is different than the initial number of carriers; and

transmitting a second group of symbols using the subsequent number of carriers and the subsequent symbol rate,

wherein the step of changing in the transmitter the number of carriers in active use includes the step of changing an iFFT size of an iFFT in the transmitter by a factor that is a power of two, and

wherein the step of changing in the transmitter the number of carriers in active use further includes the step of dynamically informing the transmitter of those carriers that were not used in the initial number of carriers and will be used in the subsequent number of carriers by placing data conveying signals into those carriers that previously had zero magnitude

signals within the transmitter, wherein each carrier is individually selected to be used/not used.

26-96. (Cancelled)